

TFEEDET" 5645000T

BLASTP ALIGNMENT OF SEQ ID NO: 5 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 5)  
Subject: --gil5213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
Length = 243

Score = 158 (60.7 bits), Expect = 1.3e-08, P = 1.3e-08

Identities = 42/136 (30%), Positives = 67/136 (49%)

Query: 670 RVAFSAA-RTSNLAPGTLDDQPIVFDLLNLNIGETFDLQLGRFNCVPVNGTYVFI F H M L K L A 728  
R A F S T P + P I F + N + D G + F + C + G Y F + H +  
Sbjct: 111 R S A F S V G L E T Y V T V P - - - N M P I R F T K I F Y N Q N H Y D G S T G K F H C N I P G L Y F A Y H I T V Y M 167

Query: 729 V N V P L Y V N L M K N E E V L V S A Y A N D G A P D H E T A S N H A I L Q L F Q G D Q I W L R L H - - - - R G A I Y G 784  
+ V V + L K + + + Y + + A S + L L G D Q + W L + + + R + Y  
Sbjct: 168 K D V K - - V S L F K K D K A M L F T Y D Q Y Q E N N V D Q A S G S V L L H L E V G D Q V W L Q V Y G E G E R N G L I Y A 225

Query: 785 S S W K Y S T F S G Y L L Y Q D 800  
+ S T F + G + L L Y D  
Sbjct: 226 D N D N D S T F T G F L L Y H D 241

FIG. 1

BLASTP ALIGNMENT OF SEQ ID NO: 5 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 5)  
Subject: AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
Length = 244

Score = 156 (60.0 bits), Expect = 4.3e-09, P = 4.3e-09

Identities = 41/136 (30%), Positives = 67/136 (49%)

Query: 670 RVAFSAA-RTSNLAPGTLDDQPIVFDLLLNILGETFDLQLGRFNCVNGTYVFI F H M L K L A 728  
R A F S T P + P F + N + D G + F + C + G Y F + H +  
Sbjct: 112 RSAFSVGLETYYP---NMPEFTKIFYNQNNHYDGTGKFCNIPGLYYFAYHITVYM 168  
Query: 729 VNVPLYVNLMKNEEVLVSAAYANDGAPDHETASNHAILQLFQGDQIWLRLH---RGAIYG 784  
+V V+L K ++ ++ Y +++ AS +L L GDQ+WL+++ R +Y  
Sbjct: 169 KDVK--VSLFKKDKAMLFYDQYQENNYDQASGSVLLHLEVGDVWLQVYGEGERNGLYA 226  
Query: 785 SSWKYSTFSGYLLYQD 800  
+ STF+G+LLY D  
Sbjct: 227 DNDNDSTFTGFLLYHD 242

FIG. 2

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BLASTP ALIGNMENT OF SEQ ID NO: 15 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 15)  
Subject: gi15213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
Length = 243

Score = 147 (56.8 bits), Expect = 2.6e-07, P = 2.6e-07

Identities = 40/136 (29%), Positives = 65/136 (47%)

Query: 580 RVAFSAA-RTSNLAPGTLDDQPYGVVDLLLNILGETFDLQLGRFNCPVNGTYVVFIFHMLKLA 638  
R AFS T P + P + N +D G+F+C + G Y F +H+

Sbjct: 111 RSAFSVGLETYVTP---NMPIRFTKIFYNQNNHYDGGTGKFCNIPGLYYFAYHITVYM 167

Query: 639 VNVPLYVNLMKNEEVLSAYANDGAPDHETASNHAILQLFQGDQIWLRLH---RGAIYG 694  
+V V+L K ++ ++ Y + + AS +L L GDQ+WL+++ R +Y

Sbjct: 168 KDVK--VSLFKKDKAMLFITYDQYQENNVDDQASGSVLLHLEVGDVWLQVYGEGERNGLYA 225

Query: 695 SSWKYSTFGYLLYQD 710  
+ STF+G+LLY D

Sbjct: 226 DNDNDSTFTGFLLYHD 241

FIG. 3

BLASTP ALIGNMENT OF SEQ ID NO: 15 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 15)  
Subject: AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
Length = 244

Score = 151 (58.2 bits), Expect = 1.5e-08, P = 1.5e-08

Identities = 40/136 (29%), Positives = 66/136 (48%)

Query: 580 RVAFSAA-RTSNLAPGTLDQPYGVDDLNNLGETFDLQLGRFNCVPNGTYVFI F H M L K L A 638  
R AFS T P + P + N +D G+F+C + G Y F +H+

Sbjct: 112 RSAFSVGLETYTYTIP---NMPERFTKIFYNQNHYDGTGKFCNIPGLYYFAYHITVYM 168

Query: 639 VNVPLYVNLMKNEEVLVSAAYANDGAPDHETASNHAILQLFQGDQIWLRLH---RGAIYG 694  
+V V+L K ++ ++ Y +++ AS +L L GDQ+WL+++ R +Y

Sbjct: 169 KDVK--VSLFKDKKAMLFTYDQYQENNYDQASGSVLLHLEVG DQVWLQVYGEGERNGLYA 226

Query: 695 SSWKYSTFGYLLYQD 710  
+ STF+G+LLY D

Sbjct: 227 DNDNDSTFTGFLLYHD 242

FIG. 4

BLASTP ALIGNMENT OF SEQ ID NO: 28 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 28)  
 Subject: gi15213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
 length = 243

Score = 351 (128.6 bits), Expect = 7.7e-31, P = 7.7e-31

Identities = 84/225 (37%), Positives = 124/225 (55%)

|        |     |   |  |     |
|--------|-----|---|--|-----|
| Query: | 525 | GPPGFP  | GIGKPGVAG-LHGPPGKPGALGPQGPGLPGPPPGPPGPPAVMPPTPPPPQGE | 583 |
| Sbjct: |     | GP  | + K G + G PG PG G G+ G G PG G G P ++ P +G            |     |
|        | 23  | GPGVLLPLPKGACTGWMAGIPGHPGHNGVPGRDGRDGPGEKGEKDPGLIGP----     | KG- 77   |     |
| Query: | 584 | YLPDMG-LGIDGVKPPHAYGAKKGNGGP---                             | AYEM-PAFTAELTAPFPPVGPVGFNKL                          | 638 |
| Sbjct: |     | D G G+ G + P + +G+ G P AY AF+ L                             | P++F K+  |     |
|        | 78  | ---DTGETGVTGAEGPRGFPGIQGRKGEPEGAYVRSVGLETYVTVPNMPIRFTKI     | 134  |     |
| Query: | 639 | LYNGRQNYNPQTGIFTCEVPGVYFYFAYHVHCKGNNVWVALFKNNEPVMYTYDEYKKGF | LD 698   |     |
| Sbjct: |     | YN + +Y+ TG F C +PG+YFYFAYH+ +V V+LFK ++ +++TYD+Y++ +D      |  |     |
|        | 135 | FYNQNHYDGGSTGKFHCNIPGLYFYFAYHITVYMKDVKVSFLFKDKAMLFYDQYQENNV | D 194  |     |
| Query: | 699 | QASGSVLLLRPGDRVFLQMPSE-QAAGLYAGQYVHSSFSGYLLY                | 742  |     |
| Sbjct: |     | QASGS +L L GD+V+LQ+ E + GLYA S+F+G+LLY                      |  |     |
|        | 195 | QASGSVLLHLEVGQVWLQVYGEGERNGLYADNDNDSTFTGFLLY                | 239  |     |

FIG. 5

**BLASTP ALIGNMENT OF SEQ ID NO: 28 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)**

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 28)  
 Subject: AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
 adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
 Length = 244

Score = 363 (132.8 bits), Expect = 6.7e-33, P = 6.7e-33

Identities = 87/236 (36%), Positives = 129/236 (54%)

|        |     |   |     |
|--------|-----|---|-----|
| Query: | 514 | IPGPKGEPLPGPPGPGIGKPGVAG-LHGPPGKPGALGPQGPGLPGLPGPPGPPGPPA     | 572 |
|        |     | +PG E + GP + K G + G PG PG G + G G PG G G P                   |     |
| Sbjct: | 13  | LPGHDQETTIQGPVLLPLPKGACTGWMAGIPGHPGHGAPGRDGRDTPGEKGEKGDPG     | 72  |
| Query: | 573 | VMPPTPPPQGEYLPDMG-LGIDGVKPPHAYGAKKGNGP---AYEM-PAFTAELTAPFP    | 627 |
|        |     | ++ P +G D+G G+ G + P + +G+ G P AY AF+ L +                     |     |
| Sbjct: | 73  | LIGP----KG----DIGETGVPGAEGPRGPPGIQGRKGEPEGAYVYRSAFSVGLETYT    | 124 |
| Query: | 628 | PVGAPVKFNKLLYNGRQYNYPQTGIFTCEVPGVYFYFAYHVHCKGNVWVALFKNNEPVMY  | 687 |
|        |     | P +F K+ YN + +Y+ TG F C +PG+YFYFAYH+ +V V+LFK ++ +++          |     |
| Sbjct: | 125 | IPNMPERFTKIFYNQNHYDGGTGKFCNCNIPGLYFYFAYHITVYMKDVKVSFLFKDKAMLF | 184 |
| Query: | 688 | TYDEYKKGFLDQASGSVLLLRPGDRVFLQMPSE-QAAGLYAGQYVHSSFSGYLLY       | 742 |
|        |     | TYD+Y++ DQASGS +L L GD+V+LQ+ E + GLYA S+F+G+LLY               |     |
| Sbjct: | 185 | TYDQYQENNYDQASGSVLLHLEVGQVWLQVYGEGERNGLYADNDNDSTFTGFLLY       | 240 |

**FIG. 6**

BLASTP ALIGNMENT OF SEQ ID NO: 160 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 160)  
 Subject: gi15213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
 Length = 243

Score = 410 (149.4 bits), Expect = 5.3e-38, P = 5.3e-38

Identities = 92/228 (40%), Positives = 133/228 (58%)

Query: 53 GPHGRIGLPGRDGRKGEKGEKGTAGLKGKTGTLGLAGEKGDQGETGKKGPIGPEGEK 112  
 GP + LP G G G G+ G+ G G GEKG++G+ G IGP+G+  
 Sbjct: 23 GPGVLLPLPKGACTGWMAGIPGHPGHNGVPGRDGRDGTGPEKGEKGDPL---IGPKGDT 79

Query: 113 GEVGPIGPPGPKGDRGEQGDPLPGVCRCSIVLKSAFSVGITTSYPEERLPIIFNKVLF 172  
 GE G G GP+G G QG G PG G+ V +SAFSVG+ T +PI F K+ +  
 Sbjct: 80 GETGVTGAEGPRGFPGIQGRKGEPE---GAVVYRSAFSVGLETVVTVPNMPIRFTKIFY 136

Query: 173 NEGEHYNPATGKFICAFPGIYYFSYDITLANKHLAIGLVHNGQYRIKTFDANTGNH-DVA 231  
 N+ HY+ +TGKF C PG+YFF+Y IT+ K + + L + + T+D N+ D A  
 Sbjct: 137 NQONHYDGTGTFHCNIPGLIYFYFAYHITVYMKDVKVSFLFKDKAMLFTYDQYQENNVDQA 196

Query: 232 SGSTVIYILQPEDEVWLEIFFT-DQNGLFSDPGWADSLFSGFLLYVDTD 278  
 SGS +++L+ D+VWL+++ ++NGL++D DS F+GFLLY DT+  
 Sbjct: 197 SGSVLLHLEVGQVWLQVYGEGERNGLYADND-NDSTFTGFLLYHDTN 243

FIG. 7

BLASTP ALIGNMENT OF SEQ ID NO: 160 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 160)  
Subject: AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
Length = 244

Score = 411 (149.7 bits), Expect = 7.3e-39, P = 7.3e-39

Identities = 94/238 (39%), Positives = 134/238 (56%)

Query: 43 PGPPGANGSPGPHGRIGLPGRDGRGRKGEKGEKGTAGLRGKTGTLAGEKGDQGETGK 102  
GP + LP G G G G+ G G GEKG++G+ G  
Sbjct: 14 PGHDQETTIQPGVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDGTGKEKGEKGDPL 73

Query: 103 KGPIGPEGEKGEVPIGPPGPKGDRGEQGDPLPGVCRGSIVLKSAFSVGITTSYPEER 162  
IGP+G+ GE G GP+G G QG G PG G+ V +SAFSVG+ T Y  
Sbjct: 74 ---IGPKGDIGETGVPGAEGPRGFPGIQGRKGEPE---GAYVYRSAFSVGLETYTIPN 127

Query: 163 LPIIFNKVLFNEGEHYNPATGKFCAPPGIYYFSYDITLANKHLAIGLVHNGQYRIKTFD 222  
+P F K+ +N+ HY+ +TGKF C PG+YYF+Y IT+ K + + L + + T+D  
Sbjct: 128 MPERFTKIFYNQNHYDGTGKFKHCNIPGLIYFAYHITVYMKDVKVSFLFKDKAMLFYD 187

Query: 223 A-NTGNHVDVAGSTVIYLQPEDEVWLEIFFT-DQNGLFSDPGWADSLFSGFLLYVDTD 278  
N+D ASGS +++L+ D+VWL+++ ++NGL++D DS F+GFLLY DT+  
Sbjct: 188 QYQENNYDQASGSVLLHLEVGDVWLQVYGEGERNGLYADND-NDSTFTGFLLYHDTN 244

FIG. 8



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BLASTP ALIGNMENT OF SEQ ID NO: 186 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 186)  
Subject: gi15213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
Length = 243

Score = 472 (171.2 bits), Expect = 1.4e-44, P = 1.4e-44

Identities = 104/204 (50%), Positives = 130/204 (63%)

Query: 86 GIKGDQSGSGSPGKHGPKGLAGPMGEKGLRGETGPQGQKGNKGDVGTGPEGPRGNIGPL 145  
GI G G G PG+ G G G GEKG G GP KG+ G+ G TG EGPRG G

Sbjct: 41 GIPGHPGHNGVPGRDGRDGTGPEKGEKGDPLIGP---KGDGTGTVTGAEGPRGFPGIQ 97

Query: 146 GPTGLPGPMGPIGKPG-PKG-EAGPTGPQDMPKIKFDKILYNEFNHYDTAAGKFTCHIAGV 203  
G G PG + + G E T P +MPI+F KI YN+ NHYD + GKF C+I G+

Sbjct: 98 GRKGEPGEGAYVYRSAPSVGLETYVTVP-NMPIRFTKIFYNQNNHYDGGSTGKFHCNIPGL 156

Query: 204 YYFTYHITVFSRNVQVSLVKNGVKILHTKDAYMSSE-DQASGGIVLQLKLGDEVWLQVTG 262  
YYF YHITV+ ++V+VSL K +L T D Y + DQASG ++L L++GD+VWLQV G

Sbjct: 157 YYFAYHITVYMKDVKVSLEFKDKAMLFYDYQYQENNVDQASGSVLLHLEVGDVWLQVYG 216

Query: 263 -GERFNGLFADEDDDTTFTGFLLF 285  
GER NGL+AD D+D+TFTGFLL+

Sbjct: 217 EGER-NGLYADNDNDSTFTGFLLY 239

FIG. 9

BLASTP ALIGNMENT OF SEQ ID NO: 186 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 186)  
Subject: AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
Length = 244

Score = 458 (166.3 bits), Expect = 7.6e-44, P = 7.6e-44

Identities = 102/204 (50%), Positives = 129/204 (63%)

Query: 86 GIKGDQSGRSGPKHGPKGLAGPMGEKGLRGETGPQGQKGNKGDVGTGPEGPRGNIGPL 145  
GI G G G+PG+ G G G GEKG G GP KG+ G+ G G EGPRG G

Sbjct: 42 GIPGHPGHNGAPGRDGRDGTGPEKGEKGDPLIGP---KGDIGETGVPGAEGPRGFPGIQ 98

Query: 146 GPTGLPGMPGPIGKPG-PKG-EAGPTGPQDMPKIKFDKILYNEFNHYDTAAGKFTCHIAGV 203  
G G PG + + G E T P +MP +F KI YN+ NYD + GKF C+I G+

Sbjct: 99 GRKGEPGEGAYVYRSAPSVGLETYTIP-NMPERFTKIFYNQNNHYDGTGKFKHCNIPGL 157

Query: 204 YYFTYHITVFSRNVQVSLVKNQKILHTKDAYMSSE-DQASGGIVLQKLGDVWLQVTG 262  
YYF YHITV+ ++V+VSL K +L T D Y + DQASG ++L L++GD+VWLQV G

Sbjct: 158 YYFAYHITVYMKDVKVSFLFKDKAMLFYDQYQENNYDQASGVLLHLEVDQVWLQVYG 217

Query: 263 -GERFNGLFADEDDDTFTGFLLF 285  
GER NGL+AD D+D+TFTGFLL+

Sbjct: 218 EGER-NGLYADNDNDSTFTGFLLY 240

FIG. 10

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BLASTP ALIGNMENT OF SEQ ID NO: 215 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 215)  
Subject: gil5213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
Length = 243

Score = 208 (78.3 bits), Expect = 1.4e-16, P = 1.4e-16

Identities = 57/178 (32%), Positives = 86/178 (48%)

Query: 104 GLAGPMGEKGLRGETGPQCQKGNKGDVGPTEGPRGNIGPLGPTGLPGPMGPIGKPGPK 163  
G+ G G G+ G G G KG+ G G GP+G+ G G TG GP G G G K

Sbjct: 41 GIPGHPGHNGVPGRDGRDGTPEKEKGDPLIGPKGDTGVTGAEGPRGFPGIQGRK 100

Query: 164 GEAGPTGPQGEPPVR-GIRGWKGDGRGEKGIGETLVLPSAFTVGLTVLSKFPSSDVPIK 222  
GE G G+ + + + ++ + G T Kf + +

Sbjct: 101 GEPGEGAYVYRSAFSVGLETYVTVPNMPIRFTKIFYNQONHYD-GST--GKFHCNIPGLY 157

Query: 223 FDKIHITVFSRNVQVSLVKNGVKILHTRDAYVSSSE-DQASGSIVLQLKLGDEMWCVIH 279  
+ HITV+ ++V+VSL K +L T D Y + DQASGS++L L++GD++W ++

Sbjct: 158 YFAYHITVYMKDVKVSFLFKDKAMLFTYDQYQENNVDQASGSVLLHLEVGQDVWLQVY 215

FIG. 11

BLASTP ALIGNMENT OF SEQ ID NO: 215 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 215)  
Subject: AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
Length = 244

Score = 213 (80.0 bits), Expect = 7.0e-18, P = 7.0e-18

Identities = 60/182 (32%), Positives = 91/182 (50%)

Query: 104 GLAGPMGEKGLRGETGPGQKGNKGDVGTGPEGPRGNIGPLGPTGLPGPMGPICKPGPK 163  
G+ G G G G G G G KG+ G G GP+G+IG TG+PG GP G PG +

Sbjct: 42 GIPGHPGHNGAPGRDGRDGTGEGKEKGDPLIGPKGDIGE---TGVPGAEGPRGFPGIQ 98

Query: 164 GEAGPTGPQGEPPVR-----GIRGWKGDGRGEKGIGETLVLPKSAFTVGLTVLSKFPSSD 218  
G G G +G R G+ + + + ++ + G T KF +

Sbjct: 99 GRKGEPPG-EGAYVYRSAPSVGLETTYTIPNMPERFTKIFYNQNNHYD-GST--GKFHCNI 154

Query: 219 VPIKFDKIHTVFSRNVQVSLVKNGVKILHTRDAYVSSE-DQASGSIVLQLKLGDEMWCV 277  
+ + HITV+ ++V+VSL K +L T D Y + DQASGS++L L++GD++W

Sbjct: 155 PGLYYFAYHITVYMKDVKVSFLFKDKAMLFITYDQYQENNYDQASGSVLLHLEVGQDVWLQ 214

Query: 278 IH 279

++

Sbjct: 215 VY 216

FIG. 12

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BLASTP ALIGNMENT OF SEQ ID NO: 241 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 241)  
Subject: gil5213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
Length = 243

Score = 476 (172.6 bits), Expect = 5.4e-45, P = 5.4e-45

Identities = 101/202 (50%), Positives = 129/202 (63%)

Query: 131 GPTGPEGPRGNIGPLGPTGLPGPMGPIGKPGKGEAGTGPQGEPGVQGIKRWKGDGRGEK 190  
G G G G G G G PG G G PG G G TG G G +G RG+ G +G K  
Sbjct: 41 GIPGHPGHNGVPGRDGRDGTGPKGKGDPLIGPKGDTGCTGVTGAEGPRGFPFIQGRK 100

Query: 191 GKIGETLVLPKSAFTVGLTVLSKFPSSDRPIKFDKILYNEFNHYDTAAGKFTCHIAGVY 250  
G+ GE + +SAF+VGL P+ PI+F KI YN+ NHYD + GKF C+I G+YY  
Sbjct: 101 GEPGEGAVVYRSAPSVGLETVVTVPNM--PIRFTKIFYNQNNHYDGTGKFGHCNIPGLY 158

Query: 251 FTYHITVFSRNVQVSLVKNVGIKILHTKDAYMSSE-DQASGGIVLQLKLGDEVWLQVTG-G 308  
F YHITV+ ++V+VSL K +L T D Y + DQASG ++L L++GD+VWLQV G G  
Sbjct: 159 FAYHITVYMKDVKVSLFKKDKAMLFYDQYQENNVVDQASGVLLHLEVDQVWLQVYGE 218

Query: 309 ERFNGLFADEDDDTTFTGFLLF 330  
ER NGL+AD D+D+TFTGFLL+  
Sbjct: 219 ER-NGLYADNDNDSTFTGFLLY 239

FIG. 13

FIG. 14

BLASTP ALIGNMENT OF SEQ ID NO: 272 WITH  
ADIPOSE TISSUE-SPECIFIC PROTEIN ADIPO Q (SEQ ID NO: 403)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 272)  
Subject: gil14289336 AF269230\_1 (AF269230) adipose tissue-specific protein adipon Q  
[Bos taurus] (SEQ ID NO: 403) Length = 240

Score = 212 (79.7 bits), Expect = 1.0e-34, Sum P(2) = 1.0e-34

Identities = 41/78 (52%), Positives = 56/78 (71%)

Query: 227 HITVFSRNVQVSLVKNQVILHTKDAYMSSE-DQASGGIVLQLKLGDEVWLQVTGGERFN 285  
HITV+ ++V+VSL K +L T D Y DQASG ++L L++GD+VWLQV GE N  
Sbjct: 158 HITVYMKDVKVSFLFKKDKAVLFTYDQYQEKNVQDQSGSVLLHLEVGQVWLQVYEGENHN 217

Query: 286 GLFADEDDDTTFTGFLLF 303  
G++AD +D+TFTGFL+  
Sbjct: 218 GYADNVNDSTFTGFLLY 235

FIG. 15a

BLASTP ALIGNMENT OF SEQ ID NO: 272 WITH  
ADIPOSE TISSUE-SPECIFIC PROTEIN ADIPO Q (SEQ ID NO: 403)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 272)  
Subject: gi14289336 AF269230\_1 (AF269230) adipose tissue-specific protein adipon Q  
[Bos taurus] (SEQ ID NO: 403) Length = 240

Score = 183 (69.5 bits), Expect = 1.0e-34, Sum P(2) = 1.0e-34

Identities = 43/100 (43%), Positives = 56/100 (56%)

Query: 6 LLLAIEICTGNINSQD-----TCRQGHPIPGNPGHNGLPGRDGRDGAKGDKGDAGEPG 59  
LLLA+ G N +D C GIPG+PGHNG PGRDGRDG G+KG+ G+ G  
Sbjct: 9 LLLALP-SHGEDNMEDPPLPKGACAGWMAGIPGHPGHNGTPGRDGRDGTGPEKGEKGDAG 67

Query: 60 RPSGPKDGTSGEKGERGADGKVEAKGIKGDQGSRGSPGK 99  
G G+ +G+ G GA+G +G G G +G PG+  
Sbjct: 68 LLGPKGE---TGDVGMTGAEGP---RGFPPTGPRKKEPGE 101

FIG. 15b





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BLASTP ALIGNMENT OF SEQ ID NO: 302 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 302)  
Subject: gi15213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
Length = 243

Score = 330 (121.2 bits), Expect = 1.6e-29, P = 1.6e-29

Identities = 82/220 (37%), Positives = 116/220 (52%)

Query: 124 PSTAATPDRGLMQSLPTFTIQPKGEAGRPCKAGPRGPPGPPGPMGPPGKEGEPGRQG 183  
P A T G M +P G G GR G+ G G GE G PG +GP G+ GE G G

Sbjct: 31 PKGACT---GWMAGIPGH-PGHNGVPGRDGRDTPGKEGKGDPGLIGPKGDTGETGVTG 86

Query: 184 LPGPPGAPGLNAA-GAISAATYSTGPKIAFYAGLKRQHEGYEV-LKFDDVVTNLGNHYDP 241  
GP G PG+ G Y + AF GL+ + ++F + N NHYD

Sbjct: 87 AEGPRGFPGIQGRKGEPEGAYVY--RSAFSVGLIETVTVPNMPIRFTKIFYNQNNHYDG 144

Query: 242 TTGKFTCSIPGIYFFTYHVLMRGGDGTSMWADLCKNNQVRASAIADQADQNYDYASNSVW 301  
+TGKF C+IPG+Y+F YH+ + D + L K ++ Q + N D AS SV+

Sbjct: 145 STGKFHCNIPGLYFYFAYHITVYMKD---VKVSLFKKDKAMLFYDQYQENNVVDQASGSVL 201

Query: 302 LHLEPGDEVYIKLDG-GKAHG--GNNNKYSTFSGFIIYAD 338  
LHLE GD+V++++ G G+ +G +N+ STF+GF++Y D

Sbjct: 202 LHLEVGDOQVWLQVYGEGERNGLYADNDNDSTFTGTFLLYHD 241

FIG. 17

BLASTP ALIGNMENT OF SEQ ID NO: 302 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 302)  
Subject: AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
Length = 244

Score = 336 (123.3 bits), Expect = 5.8e-31, P = 5.8e-31

Identities = 83/220 (37%), Positives = 117/220 (53%)

Query: 124 PSTAATPDRGLMQSLPTFIQPKGEAGRPGKAGRPGPPGPPGPMGPPGKEGEPGRQG 183  
P A T G M +P G G GR G+ G GE G PG +GP G+ GE G G

Sbjct: 32 PKGACT---GWMAGIPGH-PGHNGAPGRDGRDGTPEKEKGDPLIGPKGDIGETGVPG 87

Query: 184 LPGPPGAPGLNAA-GAISAATYSTGPKIAFYAGLKRQHEGYEVL-KFDDVVVTLGNHYDP 241  
GP G PG+ G Y + AF GL+ + + +F + N NHYD

Sbjct: 88 AEGPRGFPGIQGRKGEPEGAYVY--RSAFSVGLETYTIPNMPERFTKIFYNQNHYDG 145

Query: 242 TTGKFTCSIPGIYFFTYHVLMRGGDGTSMWADLCKNNQVRASAIADQADQNYDYASNSVV 301  
+TGKF C+IPG+Y+YH+ + D + L K ++ Q + NYD AS SV+

Sbjct: 146 STGKFHCNIPGLYFYFAYHITVYMKD---VKVSLFKKDKAMLFYDQYQENNYDQASGSVL 202

Query: 302 LHLEPGDEVYIKLDG-GKAHG--GNNNKYSTFSGFIIYAD 338  
LHLE GD+V++++ G G+ +G +N+ STF+GF++Y D

Sbjct: 203 LHLEVGDAQVWLQVYGEGERNGLYADNDNDSTFTGFLLYHD 242

FIG. 18

BLASTP ALIGNMENT OF SEQ ID NO: 323 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 323)  
 Subject: gil5213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
 length = 243

Score = 330 (121.2 bits), Expect = 1.6e-29, P = 1.6e-29

Identities = 82/220 (37%), Positives = 116/220 (52%)

|        |     |  |     |
|--------|-----|--|-----|
| Query: | 30  | PSTAATPDRGLMQSLPTFIQPKGEAGRPGKAGPRGPPGPPGPPGPKGEPGRQG          | 89  |
| Sbjct: |     | P A T G M +P G G GR G+ G G GE G PG +GP G+ GE G G               |     |
|        | 31  | PKGACT---GWMAGIPGH-PGHNGVPGRDGRDGTGPKGEGKDPGLIGPKGDTGETGVTG    | 86  |
| Query: | 90  | LPGPPGAPGLNAA-GAISAATYSTGPKIAFYAGLKRQHEGYEV-LKFDDVVTNLGNHYDP   | 147 |
| Sbjct: |     | GP G PG+ G Y + AF GL+ + ++F + N NHYD                           |     |
|        | 87  | AEGPRGFPGIQGRKGEPEGAYVY--RSAFSVGLETYVTVPNMPIRFTKIFYNQNNHYDG    | 144 |
| Query: | 148 | TTGKFTCSIPGIYFFTYHVLMRGGDGTSMWADLCNNQVRASAIADADQNYDYASNSV      | 207 |
| Sbjct: |     | +TGKF C+IPG+Y+F YH+ + D + L K ++ Q + N D AS SV+                |     |
|        | 145 | STGKFHCNIPGLYFYFAYHITVYMKD---VKVSLFKDKKAMLFITYDQYQENNVVDQAGSVL | 201 |
| Query: | 208 | LHLEPGDEVYIKLDG-GKAHG--GNNNKYSTFSGFIIYAD                       | 244 |
| Sbjct: |     | LHLE GD+V++++ G G+ +G +N+ STF+GF++Y D                          |     |
|        | 202 | LHLEVGDQVWLQVYGEGERNGLYADNDNDSTFTGFLLYHD                       | 241 |

FIG. 19

BLASTP ALIGNMENT OF SEQ ID NO: 323 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 323)  
Subject: AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
Length = 244

Score = 336 (123.3 bits), Expect = 5.8e-31, P = 5.8e-31

Identities = 83/220 (37%), Positives = 117/220 (53%)

Query: 30 PSTAATPDRGLMQSLPTFIQPKGEAGRPGKAGPRGPPGPPGPMGPPGKGEPRQG 89  
P A T G M +P G G GR G+ G G GE G PG +GP G+ GE G G

Sbjct: 32 PKGACT--GWMAGIPGH-PGHNAGPRGRDGTGPKGEKGDPLIGPKGDIGETGVP 87

Query: 90 LPGPPGAPGLNAA-GAISAATYSTGPKIAFYAGLKRQHEGYEV-LKFDDVVTNLGNHYDP 147  
GP G PG+ G Y + AF GL+ + +F + N NHYD

Sbjct: 88 AEGPRGFPGIQGRKGEPEGAYVY--RSAFSVGLETYTYTIPNMPERFTKIFYNQNHYDG 145

Query: 148 TTGKFTCSIPGIYFFTYHVMRGDGTSMWADLCNNQVRASAIADQADQNYDYASNSV 207  
+TGKF C+IPG+Y+F YH+ + D + L K ++ Q + NYD AS SV+

Sbjct: 146 STGKFHCNIPGLIYFYFAYHITVYMKD---VKVSLFKKDKAMLFYDQYQENNYDQASGSVL 202

Query: 208 LHLEPGDEVYIKLDG-GKAHG--GNNNKYSTFSGFIIYAD 244  
LHLE GD+V++++ G G+ +G +N+ STF+GF++Y D

Sbjct: 203 LHLEVGDAQVWLQVYGEGERNGLYADNDNDSTFTGFLLYHD 242

FIG. 20

BLASTP ALIGNMENT OF SEQ ID NO: 348 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 348)  
 Subject: gil15213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
 Length = 243

Score = 138 (53.6 bits), Expect = 1.9e-06, P = 1.9e-06

Identities = 69/220 (31%), Positives = 90/220 (40%)

|        |     |   |     |
|--------|-----|---|-----|
| Query: | 296 | PQPPGSTGVIAETGQAGPPAGAGVSGR-GLPRGVDGQTSGTVPGAEGFAGAPGYPKSPP   | 354 |
| Sbjct: |     | P PG GV G+ G P G GL G G TG V GAEG G PG                        |     |
| Query: | 43  | PGHPGHNGVPGRDGRDGTGPEKGEKGDPLI-GPKGDTGETGVTGAEGPRGFPGIQGRKG   | 101 |
| Sbjct: |     |   |     |
| Query: | 355 | VASPGAPVPSLVFSAGL-TQKPPPSDGGVVLFNKVLVNDGDVYNPSTGVFTAPYDGRYL   | 413 |
| Sbjct: |     | GA V +FS GL T P+ + F K+ N + Y+ STG F G Y                      |     |
| Query: | 102 | EPGEGAYVYRS-AFSVGLETVVTVPNMP--IRFTKIFYNQNHVDGSTGKFCNIPGLYY    | 158 |
| Sbjct: |     |   |     |
| Query: | 414 | ITATLTPERDAYVEAV-LSVSNASVAQLHTAGYRREFLEYHRPTGALHTCGGPGAFHLIV  | 472 |
| Sbjct: |     | +T Y++ V +S+ A L T Y + ++ G +++                               |     |
| Query: | 159 | FAYHIT----VYMKDVKVSFLFKDKAMLFT--Y-----DQYQENNVVDQASGS-----VLL | 202 |
| Sbjct: |     |   |     |
| Query: | 473 | HLKAGDAVNVVVTG-----GKLAHTDFDEMYSTFSGVFLY                      | 507 |
| Sbjct: |     | HL+ GD V + V G G A D D STF+G LY                               |     |
| Query: | 203 | HLEVGDAQVWLQVYGEGERNGLYADNDND---STFTGFLLY                     | 239 |
| Sbjct: |     |   |     |

FIG. 21

BLASTP ALIGNMENT OF SEQ ID NO: 348 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 348)  
Subject: AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
Length = 244

Score = 132 (51.5 bits), Expect = 1.7e-06, P = 1.7e-06

Identities = 75/243 (30%), Positives = 98/243 (40%)

Query: 269 PRPSGATAEDPGRRPVLQRRPPEERPPQPPGSTGVIAETGQAGPPAGAGVSGRGLPRGV 328  
P P G T G +P P P G G E G+ G P G+ G P+G  
Sbjct: 30 PLPKGACTGWMAG----IPGHPGHNGAPGRDGRDTPGEKGEKGDG---GLIG---PKGD 79

Query: 329 DGQTGSGTVPGAEGFAGAPGYPKSPVSPGAPVPSLVSFSAGL-TQKPFPSDGGVVLFN 387  
G+TG VPGAEG G PG GA V +FS GL T P+ F  
Sbjct: 80 IGETG---VPGAEGPRGFPGIQGRKGEPEGAYVYRS-AFSVGLEYTYTIPNMPE--RFT 133

Query: 388 KVLVNDGDEVNPNSTGVFTAPYDGRYLITATLTPERDAYVEAV-LSVSNASVAQLHTAGYR 446  
K+ N + Y+ STG F G Y +T Y++ V +S+ A L T  
Sbjct: 134 KIFYNQNHYDGGSTGKFCNIPGLYYFAYHIT----VYMKDVKVSIFKKDKAMLFYDQY 189

Query: 447 REFLEYHRPTGA--LHTCGGPGAFHLIVHLKAGDAVNVVVTGGKLAHTDFDEMYSTFSGV 504  
+E Y + +G+ LH G + L V+ G+ G A D D STF+G  
Sbjct: 190 QEN-NYDQASGSVLLHLEVGQVW-LQVY---GEGE-----NGLYADNDND---STFTGF 237

Query: 505 FLY 507  
LY  
Sbjct: 238 LLY 240

FIG. 22

BLASTP ALIGNMENT OF SEQ ID NO: 355 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 355)  
 Subject: gil5213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
 Length = 243

Score = 199 (75.1 bits), Expect = 1.2e-15, P = 1.2e-15

Identities = 53/134 (39%), Positives = 68/134 (50%)

|        |     |  |     |
|--------|-----|--|-----|
| Query: | 37  | PRGPGPDGAPASVPPFP-----PGAKGEVRRRGKAGLRGPPGPPGPRGPPGPRGPPG    | 91  |
|        |     | P+G G A +P P PG G G G+ G +G PG GP+G GE G G G                 |     |
| Sbjct: | 31  | PKG-ACTGWMAGIPGHPGHNGVPGRDGRDTPGEKGEKDPGLIGPKDGTGETGVTGAEG   | 89  |
| Query: | 92  | PPG-PGPGGVA--PAAG-YVPRIAFYAGLRRPHEGYEV-LRFDDVVTVNMGAYEAAAGKF | 146 |
|        |     | P G PG G P G YV R AF GL + +RF + N N Y+ ++GKF                 |     |
| Sbjct: | 90  | PRGFPGIQGRKGEPGEGAYVYRSAFSVGLETYVTVPNMPIRFTKIFYNQQNHVDGSGTKF | 149 |
| Query: | 147 | TCPMPGVYFFAYHV   | 160 |
|        |     | C +PG+Y+FYH+   |     |
| Sbjct: | 150 | HCNIPGLYFYFAYHI  | 163 |

FIG. 23



BLASTP ALIGNMENT OF SEQ ID NO: 355 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 355)  
Subject: AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
Length = 244

Score = 204 (76.9 bits), Expect = 6.3e-17, P = 6.3e-17

Identities = 54/134 (40%), Positives = 69/134 (51%)

Query: 37 PRGPGPDGAPASVPPFP-----PGAKGEVRRGKAGLRGPPPGPRGPPGPRGPPG 91  
P+G G A +P P PG G G G+ G +G PG GP+G GE G PG G

Sbjct: 32 PKG-ACTGWMAGIPGHPGHNGAPGRDGTGPEKGEKDPGLIGPKDIGETGVPGAEG 90

Query: 92 PPG-PGPGGVA--PAAAG-YVPRIAFYAGLRRPHEGYEVL-RFDDVVTNVGNAYEAASGKF 146  
P G PG G P G YV R AF GL + + RF + N N Y+ ++GKF

Sbjct: 91 PRGFPGIQGRKGEPGEGAYVYRSFVGLETYTYTIPNMPERFTKIFYNQNHVDGSGTKF 150

Query: 147 TCPMPGVYFFAYHV 160  
C +PG+Y+FAYH+

Sbjct: 151 HCNIPGLYYFAYHI 164

FIG. 24

BLASTP ALIGNMENT OF SEQ ID NO: 378 WITH ADIPONECTIN POLYPEPTIDE (SEQ ID NO: 402)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 378)  
 Subject: gil5213856 AF404407\_1 (AF404407) adiponectin [Macaca mulatta] (SEQ ID NO: 402)  
 Length = 243

Score = 297 (109.6 bits), Expect = 5.0e-26, P = 5.0e-26

Identities = 80/215 (37%), Positives = 113/215 (52%)

|        |     |   |     |
|--------|-----|---|-----|
| Query: | 37  | PRGPGPDGAPASVPPFP-----PCAKGEVRRGKAGLRGPPGPPGPPGPPGPPGPPG      | 91  |
|        |     | P+G G A +P P PG G G G+ G +G PG GP+G GE G G G                  |     |
| Sbjct: | 31  | PKG-ACTGWMAGIPGHNGVPGRDGRDTPGEKGEKDPGLIGPKGDTGETGVTGAEG       | 89  |
| Query: | 92  | PPG-PGPGGVA--PAAG-YVPRIAFYAGLRRPHEGYEV-LRFDDVVTNVGNAYEAAAGKF  | 146 |
|        |     | P G PG G P G YV R AF GL + +RF + N N Y+ ++GKF                  |     |
| Sbjct: | 90  | PRGFPGIQGRKGEPEGAYVYRSAFSVGLETYVTVPNMPIRFTKIFYNQNNHYDGTGKF    | 149 |
| Query: | 147 | TCPMPGVYFFAYHVLMRGGDGTSMWADLMKNGQVRASAIADQADQNDYDASNSVILHLDV  | 206 |
|        |     | C +PG+Y+FYH+ + D + L K + Q + N D AS SV+LHL+V                  |     |
| Sbjct: | 150 | HCNIPGLYFYFAYHITVYMKD---VKVSLFKDKKAMLFYDYQYQENNVDAQSGSVILHLEV | 206 |
| Query: | 207 | GDEVFIKLDG-GKVHG--GNTNKYSTFSGFIIYPD                           | 238 |
|        |     | GD+V++++ G G+ +G + + STF+GF+++Y D                             |     |
| Sbjct: | 207 | GDQVWLQVYGEGERNGLYADNDNDSTFTGFLLYHD                           | 241 |

FIG. 25

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BLASTP ALIGNMENT OF SEQ ID NO: 378 WITH HUMAN ADIPONECTIN  
AMINO ACID SEQUENCE (SEQ ID NO: 404)

Query: Adiponectin-Like Polypeptide (SEQ ID NO: 378)  
Subject: AAY85144 AAY85144 13-MAR-2000 09-MAR-1999 20-JUN-2000 09-MAR-1999 Human  
adiponectin amino acid sequence. [Homo sapiens] (SEQ ID NO: 404)  
Length = 244

Score = 310 (114.2 bits), Expect = 3.7e-28, P = 3.7e-28

Identities = 82/215 (38%), Positives = 115/215 (53%)

Query: 37 PRGPGPDGAPASVPPF-----PGAKGEVGRGKAGLRGPPGPPGPPGPPGPPGPPG 91  
P+G G A +P P PG G G G+ G +G PG GP+G GE G PG G  
Sbjct: 32 PKG-ACTGWMAGIPGHPGNGAPGRDGTGPGKEKGDPLGPKDIGETGVPGAEG 90

Query: 92 PPG-PGPGGVA--PAAG-YVPRIAIFYAGLRRPHEGYEVL-REDDVVTNVGNAYEAASGKF 146  
P G PG G P G YV R AF GL + + RF + N N.Y+ ++GKF  
Sbjct: 91 PRGFPGIQGRKGEPEGAYVYSAFVSGLETTYITIPMPERFKIFYNQNHVDGSGTKF 150

Query: 147 TCPMPGVYFFAYHVLMRGGDTSMWADLMKNGQVRASATAQADQNDYASNSVILHLDV 206  
C +PG+Y+FYAH+ + D + L K + Q + NYD AS SV+LHL+V  
Sbjct: 151 HCNIPGLYFYAHITVYMKD---VKVSLFKDKAMLFYDQYQENNYDQASGVLLHLEV 207

Query: 207 GDEVFIKLDG-GKVHG--GNTNKYSTFGFIYPD 238  
GD+V++++ G G+ +G + + STF+GF++Y D  
Sbjct: 208 GDQVWLQVYGEGERNGLYADNDNDSTFTTGLLYHD 242

FIG. 26